

POGORZECKI, K.

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104

Pogorecki K., Blajcki M. Methods of Rail-End Surface Hardening.
"Metody powierzchniowego utwardzania końców szyn kolejowych".
Przegląd Kolejowy. No. 4, 1954, pp. 133-138, 1 fig., 2 tabs.

The authors review modern rail-end surface hardening methods as practiced in various countries both by steel works and along the railway truck. These include: sorbitization with rolling heat; sorbitization in an oxy-acetylene flame; sorbitization by means of high-frequency current induction heating; and, finally, the hardening of rail ends in the permanent way with an oxy-acetylene flame. The article contains technical specifications for rails with hardened ends, and results of Soviet experiments. The surface hardening method for rail ends effects economies by showing, in relation to non-hardened rail and as a result of abrasion and work-hardening, a 50 per cent reduction in rail wear. The authors suggest the introduction in Poland of the sorbitization method of hardening the ends of rails by using rolling heat in steel works, and oxy-acetylene flame on the permanent way.

621.765.5 : 625.1(1)

Pogorecki K.

621.310.2 : 669.15.24.71

3421

Kozlowski L., Pogorecki K., Zuk H. Method of Producing Alni, Alnico
and Magnico Type Permanent Magnets.

"Metoda produkcji odlewanych magnesów trwałych typu Alni,
Alnico i Magnico". Przemysł Mechaniczny. №. 5, 1954, pp. 150-159,
8 figs., 3 tabs.

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The authors have evolved a method for the production of permanent magnets the composition of which includes, in addition to iron, such elements as carbon, nickel, copper, cobalt and aluminium. The method of forming, melting and casting such magnets is identical with that for all kinds of alloys — irrespective of chemical composition. Heat treatment methods are, however, closely dependent on the chemical composition of the alloy and are decisive in obtaining the requisite magnetic properties. Single heat treatment consisting in the cooling of the casting — at a rate strictly adapted to the individual alloys — is resorted to in the case of Alni and Alnico alloys, or alternatively a method of double heat treatment consisting in the rapid cooling down from the saturation temperature and subsequent ageing for several hours. Magnico type magnets are cooled down, in a magnetic field of a magnetising force of the order of 1000 Oersteds, from roughly 1300°C to a temperature of 550°C, the rate of cooling being strictly adapted to the cross-section of the magnet, but not exceeding 5°C per second.

K. POGORECKI

Metallurgical Abstracts
July 1954
Properties of Alloys

(2)

"Heat-Treatment of Cast Permanent Magnets from Alni, Alnisi, Alnico, and Magnico Alloys. K. Pogorecki (Prace Inst. Minst. Hulin., 1954, 6, (1), 38-43). [In Polish]. The influence of heat-treatment upon the magnetic properties of 8 cast alloys (*ibid.*, p. 29; *M.A.*, 21, 901) was investigated with special attention paid to the rate of cooling during pptn., hardening and the time and temp. of ageing.—S. K. L.

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Methods of superficially hardening the ends of rails. p. 133. (PRZEGLAD KOLEJOWY,
Vol. 6, No. 4, Apr. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec.

1954, Unclassified.

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5573° Heat Treatment Methods for Surface Hardening of
Rail Ends. Obróbka cieplna. Metody powierzchniowego ut-
wardzania końców szyn kolejowych. (Polish.) K. Pogorecki.
Hutnik, v. 21, no. 8, Aug. 1954, p. 265-271.
Heating with oxy-acetylene flame; induction heating; tempering
using heat of rolling. Graphs, tables, diagrams, photographs, 7
ref.

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Hardening of railheads at the temperature of rolling. Bulletin. p. 11.
(Hutnik, Vol. 24, No. 3, Mar 1957, Katowice, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

POGORECKI, Kazimierz

Flame surface hardening of heavy gear transmissions with an
oxyacetylene blowpipe. Mechanika Gliwice no.16:63-68 '62.

1. Instytut Metalurgii Zelaza, Gliwice.

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POGORECKI, Kazimierz, mgr inż.

Thermal working of railroad rails as a factor of the increase
of their durability. Wiad huc 19 no.1:13-20 Ja '63.

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